

X1A

4

CENTRAL INTELLIGENCE AGENCY

## **INFORMATION REPORT**

COUNTRY China (Taiwan)

DATE DISTR. 16 JUN 53

## SUBJECT Crop Insects and Some Control Measures

NO. OF PAGES 2

PLACE  
25X1 AACQUIRED

NO. OF ENCL'S.  
(LISTED BELOW)

DATE  
25X1ACQUIRED BY SOURCE

SUPPLEMENT TO  
REPORT NO.

**DATE OF INFORMATION**

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF TITLE 18, SECTIONS 793 AND 794, OF THE U.S. CODE, AS AMENDED. ITS TRANSMISSION OR REVELATION OF ITS CONTENTS TO OR RECEIPT BY AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW. THE REPRODUCTION OF THIS FORM IS PROHIBITED.

THIS IS UNEVALUATED INFORMATION

25X1K

SOURCE

1. There are 1088 species of crop insects on Taiwan. The following are the most injurious to agricultural crops:

<u>Crop</u>	<u>Common name</u>	<u>Order</u>	<u>Family</u>	<u>Scientific name</u>
Rice	Rice borer	Lepidoptera	Pyralidae	<i>Schoenobius insertellus</i>
	Rice hispa	Coleoptera	Chrysomelidae	<i>Hispa similis</i>
	Lema beetle	"	"	<i>Lema oryzae</i>
	Leaf hopper	Hemiptera	Jassidae	<i>Nilaparvata oryzae</i>
	Leaf roller	Lepidoptera	Pyralidae	<i>Sogota furcifera</i> <i>Cnaphalocrocis medinalis</i>
Sweet potato	Sweet potato beetle	Coleoptera	Curculionidae	<i>Cylas formicarius</i>
	Sweet potato horn worm	Lepidoptera	Sphingidae	<i>Herse convolvuli</i>
Sugar cane	Wireworm	Coleoptera	Elateridae	<i>Melanotus tamsuyensis</i>
	June bug	"	Scarabaeidae	<i>Allissonotum impressicolle</i>
	Sugar cane borer	Lepidoptera	Pyralidae	<i>Chilo infuscatellus</i>
		"	"	<i>Scirpophaga nivella</i>
		"	"	<i>Diatraea venosata</i>
Pineapple	Wooly aphid	Hemiptera	Eucosmidae	<i>Eucosma schistaceana</i>
	Sugar cane borer	Lepidoptera	Aphididae	<i>Cerotovacuna lanigera</i>
	Mealy bug	Hemiptera	Noctuidae	<i>Sesamia inference</i>
Banana	Banana weevil	Coleoptera	Curculionidae	<i>Cosmopolites soridus</i>
	Fruit fly	Diptera	Trypedidae	<i>Chaetodacus cucurbitae</i>
Tobacco	Aphis	Homoptera	Aphididae	<i>Myzus persicae</i>
	Cut worm	Lepidoptera	Noctuidae	<i>Agrotis ypsilon</i>
	Bud worm	"	"	<i>Chloridea assulta</i>

CLASSIFICATION: CONFIDENTIAL-SECURITY INFORMATION

**DISTRIBUTION**

## CONFIDENTIAL-SECURITY INFORMATION

- 2 -

<u>Crop</u>	<u>Common name</u>	<u>Order</u>	<u>Family</u>	<u>Scientific name</u>
Citrus fruits	Fruit fly	Diptera	Trypetidae	Chaetodacus ferrugineus
	Trunk borer	Coleoptera	Cerambycidae	Melanauster chinensis
	Scale	Homoptera	Coccidae	Chrysomphalus aonidum
	Mealy bug	"	"	Icerya purchasi
	Scale	"	"	Lepidosaphes Gloverii
Vegetable	Leaf beetle	Coleoptera	Chrysomelidae	Phaedon brassicas
	Flea beetle	"	"	Phyllotreta vittata
	Army worm	Lepidoptera	Noctuidae	Prodenia litura
	Aphis	Homoptera	Aphididae	Myzus persicae
	"	"	"	Rhopalosiphum pseudo-brassicae
Melon	Fruit fly	Diptera	Trypetidae	Chaetodacus cucurbitae
	Leaf beetles	Coleoptera	Chrysomelidae	Aulacophora similis
Tea		Lepidoptera	Psychidae	Clania preyeri
		"	Bombycidae	Andracia bipunctata
		"	Liparidae	Euproctis pseudoconsperas
		"	Gelechiidae	Sitotroga cerealella
Stored foodstuff		Coleoptera	Temochilidae	Tenebriodes mauritanicus
		"	Tenebrionidae	Tribolium ferrugininum
		"	Curculionidae	Sitophilus oryzae

2. Surveys have shown that the principal agricultural crops of Taiwan suffer a 16% annual loss due to insect damage. The following control methods are in use now [1953] in Taiwan:

## (a) Biological control Methods

The introduction of the Australian lady beetle (Rodolia cardinalis) to destroy the cotton cushion scale (Icerya purchasi) in citrus fruit and the introduction of the large lady beetle (Synonyba grandis) to destroy the wooly aphid in sugar cane have been largely successful. Parasite wasps are currently being introduced to control sugar cane borers.

## (b) Chemical Control Methods

10% DDT or BHC powder is dusted on the rice paddy fields to control rice hispa, lema beetle, rice leaf hopper, and rice leaf roller. A mixture of 1% BHC powder with the soil is effective in controlling soil insects in sugar cane. Rotenone emulsion is sprayed to control vegetable insects and aphid of other crops. Citrus scale is controlled by a spray of resin wash and lime sulphur. Mealy aphid of pineapple are fumigated with methyl bromide. Insects attacking stored foodstuff are kept under control by spraying a pyrenone emulsion of 1.25% D D T.

3. As yet no effective methods have been devised to control rice borers, which cause an annual 8% crop damage, banana curculis, fruit flies, or tea tree insects.

- end -

CONFIDENTIAL-SECURITY INFORMATION